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Amendments to the claims (this listing replaces all prior versions):

1. (currently amended) Apparatus comprising

a portable electronic device comprising

a digital camera, and

a processor configured to derive handwriting or control information from light received by the digital camera from a writing instrument when the writing instrument is used on a writing

surface, the writing instrument and writing surface being separate from the apparatus.

2. (original) The apparatus of claim 1 in which the portable electronic device comprises a

mobile telephone or a personal digital assistant.

3-4. (cancelled)

5. (original) The apparatus of claim 1 also including an infrared filter arranged to filter light

being received from the writing instrument.

6. (original) The apparatus of claim 1 also including a lens arranged to alter the focal length

and/or depth of field of the digital camera.

7. (previously presented) The apparatus of claim 1 also including a mechanism configured

to enable the portable electronic device to be attached to a writing surface.

8. (original) The apparatus of claim 7 in which the mechanism comprises a suction device

configured for attachment to a white board.

9. (original) The apparatus of claim 7 in which the mechanism comprises a clip configured

to grasp paper.

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10. (previously presented) The apparatus of claim 1 also comprising a writing surface.

11. (original) The apparatus of claim 10 in which the writing surface is on a protective

cover.

12. (previously presented) The apparatus of claim 1 in which the processor is configured to

define a mapping between a sensor surface in the digital camera and a space in which the writing

instrument is located.

13. (previously presented) The apparatus of claim 1 in which the processor is configured to

define the mapping in response to calibration steps that include a user marking three locations in

the space in which the writing instrument is located.

14. (previously presented) The apparatus of claim 1 in which the processor is configured to

derive the location and trajectory of the writing instrument.

15. (previously presented) The apparatus of claim1 in which the processor is configured to

generate the handwriting and control information based on processing cycles each associated

with one location of the writing instrument.

16. (previously presented) The apparatus of claim 1 in which the processor is configured to

discriminate light received from the writing instrument from other light by locking onto a carrier

frequency at which light from writing instrument is modulated.

17. (previously presented) The apparatus of claim 1 in which the processor is configured to

determine a tilt of the writing instrument relative to a direction normal to a writing surface.

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18. (previously presented) The apparatus of claim 1 in which the portable electronic device

also comprises a display, and in which the processor is configured to cause the display to show

the trajectory of the writing instrument in real-time.

19. (original) The apparatus of claim 18 in which the display is not touch-sensitive.

20. (previously presented) The apparatus of claim 1 in which the processor comprises a

digital signal processing chip and a general purpose microprocessor and software is run in part

on the chip and in part on the microprocessor.

21. (previously presented) The apparatus of claim 1 in which the portable electronic device

also comprises a wireless communication facility and in which the processor is configured to

communicate the handwriting or control information to a remote location.

22. (original) The apparatus of claim 1 in which the digital camera is configured to receive

light that has been reflected from the writing instrument.

23. (original) The apparatus of claim 1 in which the digital camera comprises a still camera.

24. (previously presented) The apparatus of claim 1 in which the digital camera comprises a

video camera.

25. (original) The apparatus of claim 1 also including an infra-red beacon configured to be

directed at the writing instrument.

26. (previously presented) The apparatus of claim 1 in which the processor is configured to

apply pattern recognition to signals from the digital camera.

27 – 41. (cancelled)

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## 42. (currently amended) A method comprising

in a portable electronic device comprising a digital camera and a processor,

receiving images at the digital camera comprising light from a writing instrument <u>being</u> used on a writing surface, the writing instrument and writing surface being separate from the device, and

deriving handwriting and control information from the images.

## 43-52. (cancelled)

## 53. (new) Apparatus comprising

- a portable electronic device comprising
- a digital camera, and
- a processor configured to

derive handwriting or control information from light received by the digital camera from a writing instrument separate from the apparatus, and

define a mapping between a sensor surface in the digital camera and a space in which the writing instrument is located in response to calibration steps that include a user marking three locations in the space in which the writing instrument is located.